

Certificate of Analysis for NR-19172

Streptococcus pneumoniae, Strain GA47562

Catalog No. NR-19172

Product Description:

Streptococcus pneumoniae (S. pneumoniae), strain GA47562 was isolated in 2006 from the blood of a patient with pneumonia in Georgia, USA. Strain GA47562 was deposited to BEI Resources as sensitive to amoxicillin, cefuroxime, ceftriaxone, cefotaxime, chloramphenicol, clindamycin, levofloxacin, linezolid, meropenem, penicillin, synercid, telithromycin, tetracycline, trimethoprim/sulfamethoxazole and vancomycin and resistant to erythromycin. NR-19172 was produced by inoculation of BEI Resources seed lot 62743351 into Todd-Hewitt broth and grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 1 day at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70062243 Manufacturing Date: 04AUG2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, convex, entire, smooth and
		gray (Figure 1)
Hemolysis on blood agar	α-hemolytic	α-hemolytic
Motility (wet mount)	Report results	Non-motile
Catalase	Negative	Negative
1 day at 37°C in an aerobic atmosphere with		
5% CO ₂ on Tryptic Soy agar		
VITEK® MS (MALDI-TOF)	S. pneumoniae	S. pneumoniae (99.9%)
Antibiotic Susceptibility Profile ¹		
Etest® antibiotic test strips		
1 day at 37°C in an aerobic atmosphere with		
5% CO ₂ on Mueller-Hinton agar		
Cefuroxime	Sensitive	Sensitive (0.047 µg/mL)
Cefaclor	Sensitive	Sensitive (0.38 μg/mL)
Ceftriaxone	Sensitive	Sensitive (≤ 0.016 µg/mL)
Ciprofloxacin	Report results	1 μg/mL ²
Clindamycin	Sensitive	Sensitive (0.19 µg/mL)
Gatifloxacin	Sensitive	Sensitive (0.25 µg/mL) ³
Quinupristin/dalfopristin	Sensitive	Sensitive (0.75 µg/mL)
Rifampicin	Sensitive	Sensitive (0.047 µg/mL)
VITEK® (AST-GP74 card)		
Amoxicillin	Sensitive	Sensitive (≤ 0.06 μg/mL)
Benzylpenicillin	Sensitive	Sensitive (≤ 0.06 µg/mL)
Cefotaxime	Sensitive	Sensitive (≤ 0.06 μg/mL)
Chloramphenicol	Sensitive	Sensitive (4 µg/mL)
Ertapenem	Report results	Sensitive (≤ 0.5 μg/mL)
Erythromycin	Resistant	Resistant (≥ 1 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Linezolid	Sensitive	Sensitive (≤ 2 μg/mL)
Meropenem	Sensitive	Sensitive (≤ 0.06 µg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 µg/mL)
Ofloxacin	Sensitive	Sensitive (≤ 1 μg/mL)

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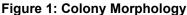


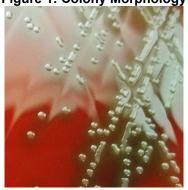
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TEST	SPECIFICATIONS	RESULTS
Telithromycin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Tetracycline	Sensitive	Sensitive (≤ 1 μg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 μg/mL)
Vancomycin	Sensitive	Sensitive (≤ 1 μg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to S. pneumoniae, strain GA47562 (GenBank: ALCY01000009.1)	99.9% sequence identity to S. pneumoniae, strain GA47562 (GenBank: ALCY01000009.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

³Testing was performed on BEI Resources seed lot 62743351.





/Sonia Bjorum Brower/ Sonia Bjorum Brower

10 OCT 2022

Technical Manager or designee, ATCC Federal Solutions

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²Clinical & Laboratory Standards Institute (CLSI) interpretation of this antibiotic test for S. pneumoniae is currently not available.